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94 RF 12561

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EG&G ROCKY FLATS

EG&G ROCKY FLATS, INC.

ROCKY FLATS PLANT, P.O. BOX 464, GOLDEN, COLORADO 80402-0464 • (303) 966-7000

December 22, 1994

94-RF-12561

Jessie M. Roberson
Assistant Manager for
Environmental Restoration
DOE/RFFO

Attn: S. R. Grace

REROUTING OF THE COLLECTION WELL WATER (10199) – SGS-655-94

Action: None required

This correspondence is in response to your request for a preliminary design to reroute the collection well water directly to the Building 891 treatment facility.

To quantify the amount of water pumped to the Building 891 facility from the collection well, EG&G Rocky Flats, Inc. is proposing the installation of a totalizing meter that measures the amount of water collected and pumped from the collection well. This would be an inexpensive and uncomplicated method of comparing the water contributed by the collection well and the water contributed by groundwater transport that is collected in the french drain.

EG&G believes that there is little chance of further contamination of the french drain due to the collection well water. As the attached as-built drawing (drawing 38548-134) shows, the collection well connects to the perforated pipe at the base of the french drain less than three feet from the sump pump that pumps the water to the Building 891 facility. The pipe that leads to the Building 891 facility is the most direct route to the treatment facility, and is utilized in the preliminary rerouting design.

If rerouting is desired, the preliminary design would be constructed. The preliminary rerouting design includes repiping the section of the collection well pipe that currently runs directly into the french drain sump. The collection well pipe would be rerouted into the valve vault at the base of the french drain and pumped to the Building 891 facility in the same pipe as the other collected groundwater, using the collection well pump. This design would also include the addition of a totalizing meter at the outflow of the collection well. A complete repiping of the collection well line would require considerable excavating and shoring, working in confined space, drilling through the valve vault to reroute the collection well pipe, and repiping existing sections of the french drain sump piping.

Jessie M. Roberson
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EG&G believes that the minimal chance of further contamination to the french drain due to the collection well water and the high cost of rerouting the existing line indicate that adding a totalizing meter is the most viable alternative. Please call Zeke Houk at extension 8714 or Rebecca Hinsch at extension 8509 with any questions.

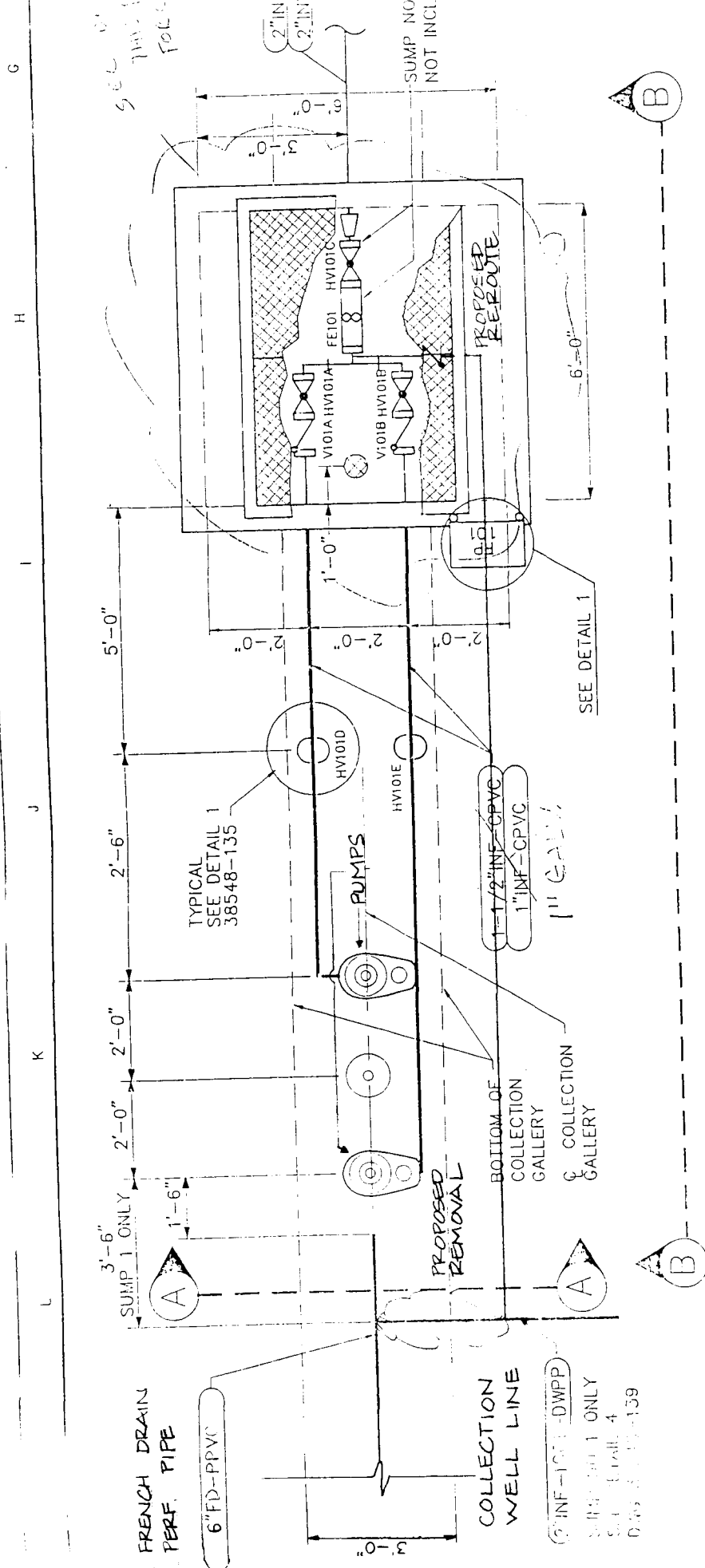
A handwritten signature in cursive script, appearing to read "S. G. Stiger".

S. G. Stiger, Director
Environmental Restoration Program Division

RMH:jlm

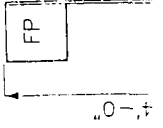
Orig. and 1 cc – J. M. Roberson

cc:
M. N. Silverman



TYPICAL OF TWO SYSTEMS (SUMPS NO 1 AND 2)
 COLLECTION GALLERY SUMP
 AND METER/VALVE VAULT PLAN VIEW

38548-130, 131 NOT TO SCALE



TYPICAL OF TWO HYDRANTS
 SEE DETAIL 1 38548-135

FROST-PROOF HYDRANT

DWG 38548-134 REV. A

BILCO FLOW
 TYPE KD-1